Performance Data Sheet

AE4470Z-AA3C

General Information

Model	AE4470Z-AA3C	**Refrigerant**	R-404A
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	20°C (68°F) RETURN GAS	**Motor Type**	CSR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
5	Btu/h	4580	4180	3780	3370	2940	2510	2060
	Watts	612	637	664	690	713	731	740
	Amps	7.57	7.66	7.77	7.88	7.98	8.04	8.06
	Lb/h	70.9	68.6	66.0	63.1	60.0	56.4	52.5
10	Btu/h	5170	4730	4290	3840	3390	2920	2430
	Watts	631	660	691	722	750	773	788
	Amps	7.65	7.75	7.88	8.02	8.14	8.23	8.28
	Lb/h	80.1	77.8	75.2	72.3	69.1	65.6	61.7
15	Btu/h	5800	5330	4850	4350	3850	3340	2810
	Watts	647	680	716	752	785	814	836
	Amps	7.72	7.85	7.99	8.15	8.30	8.43	8.52
	Lb/h	90.3	87.8	85.2	82.2	79.0	75.4	71.4
20	Btu/h	6500	5980	5440	4900	4350	3780	3200
	Watts	662	699	739	780	819	854	882
	Amps	7.79	7.93	8.10	8.29	8.47	8.63	8.75
	Lb/h	102	98.9	96.1	93.1	89.7	86.0	81.9
25	Btu/h	7270	6690	6090	5490	4880	4250	3610
	Watts	673	715	760	806	851	892	926
	Amps	7.85	8.01	8.21	8.42	8.63	8.82	8.98
	Lb/h	114	111	108	105	102	97.6	93.4
30	Btu/h	8110	7460	6800	6130	5440	4750	4040
	Watts	682	728	778	830	880	927	969
	Amps	7.90	8.08	8.30	8.54	8.78	9.01	9.21
	Lb/h	128	125	122	118	114	110	106
35	Btu/h	9020	8300	7560	6810	6060	5280	4490
	Watts	687	738	793	850	907	960	1010
	Amps	7.93	8.13	8.38	8.65	8.92	9.19	9.43
	Lb/h	144	140	137	133	129	124	120
40	Btu/h	10000	9210	8390	7560	6720	5860	4990
	Watts	689	745	805	868	930	991	1050
	Amps	7.95	8.17	8.44	8.74	9.05	9.36	9.64
	Lb/h	161	157	153	149	145	140	135

45	Btu/h	11100	10200	9290	8370	7430	6480	5520
	Watts	686	747	813	881	950	1020	1080
	Amps	7.94	8.19	8.49	8.82	9.16	9.51	9.84
	Lb/h	180	176	172	167	162	157	151
50	Btu/h	12300	11300	10300	9250	8210	7160	6090
	Watts	679	745	816	891	967	1040	1110
	Amps	7.91	8.18	8.51	8.88	9.26	9.65	10.0
	Lb/h	201	197	192	187	181	176	170
55	Btu/h	13600	12400	11300	10200	9050	7890	6720
	Watts	666	738	815	896	978	1060	1140
	Amps	7.85	8.15	8.51	8.91	9.33	9.76	10.2
	Lb/h	225	220	214	209	203	197	190
60	Btu/h	14900	13700	12500	11200	9970	8690	7390
	Watts	649	726	809	897	986	1070	1160
	Amps	7.77	8.09	8.48	8.92	9.38	9.85	10.3
	Lb/h	251	245	239	233	226	219	212

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	7.106226E+03	7.424786E+02	9.514695E+00	8.017505E+01
C2	1.355544E+02	1.639651E+00	2.296962E-02	1.538416E+00
C3	-4.181252E+01	-8.323656E+00	-7.535034E-02	-2.640695E-01
C4	2.197256E+00	-5.090829E-02	-1.707413E-04	2.202413E-02
C5	-3.917431E-01	-3.834505E-03	-3.948771E-04	5.70857E-04
C6	7.470657E-02	1.120034E-01	8.548160E-04	1.228569E-03
C7	7.079433E-03	-5.023793E-04	-3.813494E-06	2.160462E-04
C8	-1.623772E-02	3.432833E-04	2.601810E-06	-1.203615E-04
C9	-3.342928E-04	4.430967E-04	3.871737E-06	5.201048E-06
C10	-3.745860E-04	-3.940017E-04	-2.874084E-06	-8.580169E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature